Proposed Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10 (canceled)

11. (previously presented) A magneto-resistive angle sensor comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a continuous, flat, circular AMR layer with one electrical contact for applying a current (I) arranged at the center of the AMR layer and a plurality of electrical contacts for measuring a flow of current through the AMR layer.

12. (previously presented) A magneto-resistive angle sensor comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a continuous, flat, semicircular AMR layer with one electrical contact for applying a current (I) and a plurality of electrical contacts for measuring a flow of current through the AMR layer.

13. (previously presented) A magneto-resistive angle sensor as claimed in claim 12, wherein the electrical contact for applying a current is arranged in the center of an associated full circle.

14. (new) A magneto-resistive angle sensor as claimed in claim 11, characterized in that eight electrical contacts are arranged equidistantly at the edge of the circular AMR layer.

15. (new) A magneto-resistive angle sensor s claimed in claim 12, characterized in that five electrical contacts (Ki) are arranged equidistantly at the semicircular edge of the semicircular AMR layer.

16. (new) A magneto-resistive angle sensor as claimed in claim 11, characterized in that the plurality of electrical contacts are placed at ground potential.

17. (new) A magneto-resistive angle sensor as claimed in claim 11, characterized in that the AMR layer is a Permalloy layer applied to a silicon support substrate.

18. (new) The use of a magneto-resistive angle sensor as claimed in claim 11 in motor vehicle technology, wherein the magneto-resistive angle sensor monitors the position of at least one of the following: pedal, throttle.